



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **05037917 A**

(43) Date of publication of application: **12.02.93**

(51) Int. Cl

H04N 7/13

G06F 15/66

H03M 7/30

H04N 1/41

(21) Application number: 03156815

(71) Applicant: **OLYMPUS OPTICAL CO LTD**

(22) Date of filing: 27.06.91

(72) Inventor: **NAKANO KEIICHI**

(30) Priority: 03.10.90 JP 02267000

(54) METHOD AND DEVICE FOR QUANTIZING VECTOR

calculation can be minimized and an optimum code book vector can rapidly be retrieved.

(57) Abstract:

PURPOSE: To retrieve a code book vector optimum to an input vector at high speed and high efficiency by providing this vector quantizing method with a specific learning process, a retrieving process and a distortion processing process and suppressing distortion calculation at its minimum.

CONSTITUTION: A network forming part 13 forms a network corresponding to a code book vector and a retrieving order judging part 21 retrieves code book vectors successively from an index having large ignition in an output unit. A distortion calculating part 22 calculates distortion between sequentially selected code books and an input vector X at every dimension and the partial sum of distortion, stores the calculated values in a memory 24 and sets up minimum distortion min. A distortion calculation necessity deciding part 23 calculates only a decided index, and when the partial sum of distortion is larger than the minimum distortion min, a distortion calculation canceling part 25 cancels the succeeding calculation. Consequently distortion

COPYRIGHT: (C)1993,JPO&Japio

